

Instructions to Bidders and Specifications

George County Board of Supervisors
355 Cox Street
Lucedale, Mississippi 39452

Re: One or more New Motorgraders and lease purchase financing.

Bid Due Date: 10:00 Oclock A.M., on, 13th of January, 2016

Written and sealed bids are to be filed before the above time at the office of the Chancery Clerk.

Instructions to Bidders

1. The George County Board of Supervisors is acting under the authority of section 31-7-13 Miss. Code of 1972 Amended, and reserves the right to reject any and all bids.

2. All bids must be sealed and the outside of the envelope clearly marked in one of the three following manners:

If the bid contains both the Motorgrader and lease purchase financing:

"Bid: Motorgrader and lease purchase financing"

If the bid contains only the Motorgrader bid:

"Bid: Motorgrader "

If the bid contains only the lease purchase financing:

"Bid: Lease purchase Financing"

Otherwise the bid will not be considered.

***FOR SALE
1-Caterpillar 140M Motorgrader serial number B9D02856,
inventory number 304091, available for inspection by
appointment.***

Conditions for Lease purchase financing

Bids for Lease purchase financing will be accepted at the same time and place, and may be from the vendor of the Motorgrader or from a third party source. If only one bid is received for lease purchase financing, the George County Board of Supervisors reserve the right to solicit and obtain at least one other written competitive bid in order to be in compliance with the requirements of section 31-7-13 (e) Mississippi Code of 1972 Amended.

1. All bids will state the annual rate of interest which may not be greater than the overall maximum interest rate to maturity on general obligation indebtedness permitted under section 75-17-101 of the code (11%)
2. The term of such lease purchase financing should contain lease options for thirty-six (36), forty-eight (48), and sixty (60) months, and shall not exceed the useful life of the machinery per said section 31-7-13 (e)
3. The lease agreement shall contain the following annual allocation dependency clause or an annual allocation dependency clause which is substantially equivalent thereto: "The continuation of each equipment schedule to this agreement is contingent in whole or in part upon the appropriation of funds by the George County Board of Supervisors to make lease purchase payments required under such equipment schedule". If the George County Board of Supervisors fail to appropriate sufficient funds to provide for the continuation of the lease purchase payments under any such equipment schedule, then the obligation of the lessee to make such lease purchase payments and the corresponding provisions of any such equipment schedule to this agreement shall terminate on the last day of the fiscal year for which appropriations were made.
4. The County will assume responsibility for expense of day to day parts and components such as oil, filters, grease, fuel, antifreeze, electrical components, glass, hydraulic and air hoses or lines, fan belts, tires and normal wear items.
5. The County will be responsible for liability insurance and physical damage insurance.
6. Lessor to provide Schedule of purchase option price with the bid, at which the County may elect to purchase the unit at the end of any rental month.

Specifications for New Motorgrader

The following are the minimum Specifications for one or more new diesel powered Motorgraders. All bids must equal in performance and quality to the following specifications, which are not intended to exclude any manufacturer. Any reference to manufacturer's make or series of equipment stated in the following specifications are intended only to establish an acceptable standard and are not intended to limit the bidding.

Instructions to Bidders and specifications

1. The above-described machinery must be in new and unused condition, and such new and unused condition must be represented in the bid.
2. Any exceptions to the above specifications must be listed in the bidders bid, with justification. Failure to do so will disqualify the bid.
3. All bids must state delivery time (which will be a factor used in determining the lowest and best bid), and bid price must include delivery to George County.
4. All bids must state warranty, which will be a factor used in determining the lowest and best bid. A minimum 5 years (60 months) 5000 Hour full machine warranty must be included in the bid price. Travel time, service vehicle mileage and any required hauling shall be included in the bid for warranty repairs for 60 months or 5000 hours.
5. The offer of a guaranteed buy back provision at the end of three (3), four (4) and five (5) years may be used in determining the lowest and best bid.
6. The bidder shall have a full parts and service facility within 50 miles of George County, proximity to which may be a factor used in determining the lowest and best bid.

MOTOR GRADER BID SPECIFICATIONS

Compliant?

BASIC SPECIFICATIONS*

Y___ N___ Machine shall be designed and built by the manufacturer.

Y___ N___ Base Machine Weight shall not be less than 38,191 lbs (17,323 kg). Weight shall include standard machine configuration, lubricants, coolants, full fuel tank and operator of 200 lbs.

Y___ N___ Machine height to top of the cab shall not exceed 130 in (3,308 mm).

Y___ N___ Machine length from the front outside edge tire to end of tow hitch shall not be less than 351 in.

Y___ N___ Machine Wheel Base (distance from front axle to mid tandem) shall not be less than 241 in.

Y___ N___ The rear frame shall have two box section channels with an integrated bumper as standard.

Y___ N___ A toolbox shall be provided.

Y___ N___ Machine shall have vandal protection standard including locks for cab doors, engine side shields (4), top tank radiator access door, engine coolant surge tank, hydraulic reservoir cap, fuel-tank cap and tool box.

Y___ N___ An optional rear hitch shall be provided

Y___ N___ Machine shall have a Factory Grade Control system fully integrated into the machine design with integral hydraulic and electrical components.

ENGINE*

Y___ N___ Engine shall be designed and built by the manufacturer.

Y___ N___ Engine shall be a turbo-charged, direct injection, four stroke, 6-cylinder diesel engine.

Y___ N___ Engine shall be certified EPA Tier 4 Final

Y___ N___ Engine shall be electronically controlled for more efficient fuel injection

Y___ N___ Engine shall achieve rated power requirement with engine displacement not less than 567.5 in³ for better performance and fuel economy.

Y___ N___ Engine shall develop as standard a rated net flywheel power of at least 200 HP in 1st gear, 210 HP in 2nd gear, 220 HP in 3rd gear, 231 HP in 4th gear, 236 HP in 5th gear, 241 HP in 6th gear, 247 HP in 7th gear and 252 HP in 8th gear.

Y___ N___ Engine will increase its low idle speed to 1,000 rpm when the battery voltage is below 24.5 volts for more than 5 minutes to ensure adequate system voltage and battery reliability.

Y___ N___ Engine power shall not be achieved at an engine speed greater than 1800 rpm.

Y___ N___ Engine power shall not be achieved at an engine speed greater than 2000 rpm.

Y___ N___ Engine will have an minimum torque rise of 47% from 2000 rpm to peak torque following SAE J1349 (net power with max fan).

Y___ N___ Engine enclosure and daily service points shall be accessible from ground level and grouped on the left side of the machine.

Y___ N___ Engine fan shall automatically adjust fan speed via a variable hydraulic fan pump to meet engine cooling requirements thus reducing demand on the engine, putting more horsepower to the ground, reducing noise, improving fuel economy, and reducing heat.

Y___ N___ Engine shall be isolation/resilient mounted to minimize sound and vibration.

Y___ N___ Engine compartment doors shall be lockable without the use of external locks.

Y___ N___ Engine shall automatically lower engine torque and alert the operator if critical conditions are detected.

Y___ N___ Engine shall have an air-to-air after cooler for superior engine performance.

Y___ N___ Engine shall have standard oil cooler*****

Y___ N___ The cooling package air intake shall have 2.8 mm perforated inlet screen.

Y___ N___ The charged air cooler shall have 6 fins per inch.

Y___ N___ Economy mode shall be available directly from factory to increase net efficiency.

Y___ N___ Economy mode shall be able to be enabled and disabled by the operator through the onboard Message Display.

Y___ N___ Economy mode shall be lockable via onboard programmable password protection.

Y___ N___ DEF tank reservoir shall have a heater to thaw DEF fluid.

Y___ N___ DEF lines should be heated to prevent freezing during extremely cold ambient conditions.

POWERTRAIN/TRANSMISSION*

Y___ N___ Transmission shall be designed and built by the machine manufacturer.

Y___ N___ Transmission shall be a direct drive, power shift, countershaft type.

Y___ N___ Transmission shall be equipped with built-in self-diagnostic capability.

Y___ N___ Transmission shall have no less than 8 forward speeds and 6 reverse speeds

Y___ N___ Transmission shall have 5 working gears between 0 -10.6 mph

Y___ N___ Transmission shall be isolated-resilient mounted to reduce sound and vibration.

Y___ N___ A controlled throttle shifting system shall be standard to smooth directional gear changes without use of the inching pedal.

Y___ N___ Electronic Throttle Control (cruise control) shall be standard and shall be controlled by a push button, located on a 3-axis joystick as standard on the right joystick control for resuming and decreasing throttle set.

Y___ N___ Electronic Throttle Control modes, set and accelerate functions, shall be located on the right control column for easy access.

Y___ N___ A load compensating system for the transmission shall be standard to ensure consistent shift quality in all applications.

Y___ N___ Automatic Differential Lock/Unlock feature shall be standard and shall not have speed, shuttle shifting or tandem spinning restrictions for engaging/disengaging. System must be load-sensing for optimal performance. .

Y___ N___ Automatic mode shall not be overridden via manual intervention for optimal performance and to prevent unintended differential engagement

Y___ N___ Differential Lock-Unlock shall be electro-hydraulically controlled, as a standard feature.

Y___ N___ Differential Lock/Unlock shall be a multi-disc design.

Y___ N___ Final drive shall be a planetary design.

Y___ N___ The rear axle shall be a bolt-on modular design offering easy access to differential components, improving serviceability and contamination control.

Y___ N___ Machine shall be equipped with an electronic inching pedal for improved modulation and machine control.

Y___ N___ Machine shall be equipped with electronic over-speed protection to prevent the engine and transmission from over speeding, as a standard feature.

Y___ N___ Machine shall have no drive shafts that cross over the articulation hitch.

STEERING & IMPLEMENT CONTROLS*

Y___ N___ Steering wheel shall not be required to operate machine.

Y___ N___ Joystic-Steering capabilities shall be ISO 5010:1992.

Y___ N___ Machine shall employ a friction pack style steering mechanism, utilizing the follow steer concept.

Y___ N___ The left 3-axis joystick shall control wheel lean with individual left and right wheel lean buttons as standard.

Y___ N___ Primary steering shall be achieved via a left-hand, multifunction, 3-axis joystick as standard, using an intuitive steering control system that automatically adjusts steering sensitivity as machine ground speed increases.

Y___ N___ Articulation to the right or left shall be achieved by a multifunction, 3-axis left joystick with the twist of such to the right or left by the left-hand, multifunction, 3-axis joystick.

Y___ N___ An articulation return-to-center button on the left-hand, multifunction, 3-axis joystick shall return the machine to a straight frame position from any articulation angle with the touch of a single button.

Y___ N___ The right 3 axis joystick shall primarily control the Drawbar, Circle, and Moldboard.

Y___ N___ Machine, Drawbar, Circle, and Moldboard shall be control shall be achieved via a right hand multifunction, 3-axis, joystick, including moldboard slide and tip, drawbar center shift through a 4 way hat switch and circle turn by a left or right twist intuitively.

Y___ N___ Blade lift cylinders shall be individually controlled by the multifunction, 3 axis joysticks; Lift and drop of cylinders shall be achieved by the forward and back motion of the respective joystick. Forward (left joystick) lowers left lift cylinder, back (left joystick) raises the left lift cylinder, forward (right joystick) lowers the right lift cylinder, back (right joystick) raises the right lift cylinder.

Y___ N___ Joystick controls shall be mounted to electronically adjustable pedestals, which are hard-mounted to the cab floor, independent of the operator seat.

Y___ N___ Secondary steering shall have a primary and secondary power supply in the event the primary source is lost.

Y___ N___ Transmission direction control shall be a 3-position rocker switch for selecting forward, neutral, and reverse incorporated into a single, 3-axis, multi-function, left-hand joystick

Y___ N___ Transmission gear selection shall be controlled by dual push buttons for up shifting and downshifting and shall be incorporated into a single, 3-axis, multi-function, left-hand joystick control.

Y___ N___ Manual Differential Lock/Unlock shall be operator controlled, via a push-button, located on a single, 3-axis, multi-function, right-hand joystick control.

Y___ N___ The machine shall have two redundant articulation sensors.

Y___ N___ Two redundant sensors shall be standard in the steering cylinders (one in each).

Y___ N___ Three redundant sensors shall be provided in the steering joystick for additional safety.

BRAKES*

Y___ N___ Machine shall have primary and secondary service brakes.

Y___ N___ Entire braking system shall meet all requirements of ISO 3450:1996.

Y___ N___ Two separate left and right hydraulic brake accumulators shall be standard for safety.

Y___ N___ Parking brake shall be multi-disc, oil-cooled, spring-applied, hydraulically released, sealed, adjustment-free, and integrated into the transmission. Park brake shall not be externally located.

Y___ N___ Parking brake shall be serviceable without removing the transmission.

Y___ N___ Service brakes shall be multi-disc, oil-cooled and completely sealed; they will also provide access to check and determine brake wear without removing or disassembling the brake assembly.

Y___ N___ Service brake disc surfaces shall be grooved and carry oil between discs and plates with brakes fully applied.

Y___ N___ Service brakes shall be hydraulically actuated, utilizing dual independent brake circuits.

Y___ N___ Brakes shall be continuously pressurized, filtered, oil cooled.

Y___ N___ Machine shall have individual brake pods for each rear wheel, located at each rear wheel inside the tandem box, independent of tandem chains.

Y___ N___ Compensation components shall be required at all four tandem brake pods in addition to the brake wear indicator.

Y___ N___ Brake line protection, including tandem walkways and hydraulic brake line guarding, shall be required to prevent line damage.

Y___ N___ Service brakes shall provide a minimum of 891 in² of friction material surface area at each of the four tandem wheels to eliminate braking loads on the power train.

HYDRAULIC SYSTEM*

Y___ N___ A standard triple-redundant hydraulic relief system shall protect machine hydraulic components.

Y___ N___ Hydraulic implement pump shall produce between 0 and 55.7 gal-min of oil flow at 1,800 RPM.

Y___ N___ Hydraulics system shall be a closed center, load sensing type with a variable displacement, axial piston-type pump.

Y___ N___ Hydraulic system shall be fully sealed, using Duo-cone and O-ring face seals to prevent leaks, contamination, and spillage.

Y___ N___ The hydraulic tank shall have a baffling system to reduce potential pump cavitation.

Y___ N___ The maximum hydraulic system pressure shall be no more than 3,500 psi.

Y___ N___ Implement valves shall be electro-hydraulic, designed and built by the machine manufacturer.

Y___ N___ Implement pump shall not be mounted under cab floor, minimizing sound and vibration.

Y___ N___ Implement valves shall be proportional priority pressure compensating for consistent response when multi-functioning any combination of implement controls and independent of engine speed.

Y___ N___ Implement pump shall be solely dedicated to implement controls and not shared with any other components.

Y___ N___ Lock valves shall be integrated into the main implement valve to prevent cylinder drift.

Y___ N___ The hydraulic stand-by pressure shall be no more than 885 psi at 1,800 RPM.

Y___ N___ There shall be a provision to install up to 15 modulating hydraulic valves, controlled by two multifunction, 3-axis joystick controls and auxiliary controls inside the cab.

Y___ N___ Hydraulic valves shall not be mounted under the cab floor, minimizing sound and vibration.

Y___ N___ Left and right blade lift cylinders shall have independent float capability, actuated by two multifunction, 3-axis joystick controls inside the cab, as a standard feature.

Y___ N___ A sight gauge will be provided for checking hydraulic reservoir fluid.

Y___ N___ Hydraulic oil change service interval shall be no less than 6000 hours with oil sampling

Y___ N___ Hydraulic system shall have a separate oil tank solely dedicated to the implement pump.

FRONT AXLE AND TANDEM*

Y___ N___ Front axle oscillation shall be no less than 32 degrees total, per side 16 degrees up and 16 degrees down.

Y___ N___ Front axle shall be an arched design for maximum ground clearance.

Y___ N___ Wheel spindle shall be a “live” spindle design and rotate inside a sealed (with Duo-Cone seals) compartment with lightweight oil for lubrication of the bearings.

Y___ N___ Front spindle shall be heat induction hardened.

Y___ N___ Front wheel spindle bearings shall be a double-tapered design with the larger diameter bearing mounted closest to the centerline of the front tire.

Y___ N___ Front wheel spindle maintenance intervals shall be no less than 2000 hrs.

Y___ N___ Front wheel steering angle shall be no less than 50.0 degrees left or right.

Y___ N___ Maximum front wheel lean shall be no less than 18 degrees left or right.

Y___ N___ Machine turning radius shall not exceed 25 ft. 7 in. using front steering, full articulation and unlocked differential.

Y___ N___ Distance between center of tandem wheels shall be no greater than 60.0 in for optimum clearance and mobility.

Y___ N___ Tandem drive chain pitch shall not be less than 2.0 in.

Y___ N___ Tandems shall be capable of oscillating 15 degrees front tandem up and 25 degrees front tandem down, with full machine articulation and having no interference between tandem wheel and machine structure.

Y___ N___ Electronic and mechanical steering stops located at each wheel and steering cylinder relief valves shall be present to prevent steering system damage during normal operation.

Y___ N___ Steering tie rod ends shall be heat induction hardened.

Y___ N___ Machine shall provide 2 steering cylinders for maximum steering force.

Y___ N___ When equipped with a ripper, the machine shall have a minimum ramp angle of 15.9 degrees.

TIRES AND RIMS*

Y___ N___ A 10 in (25.4 cm) by 24 in (60.96 cm) size 3-piece tire rim shall be standard to provide mounting for 14.00-24 tires and 14.00R24 conventional tires

OPERATORS STATION*

Y___ N___ A 42,075 BTU/h heater shall have an integral pressurizer and four-speed fan along with A/C.

Y___ N___ Cab shall have angled floor design allowing direct visibility to moldboard.

Y___ N___ Seat shall be a cloth-covered suspension seat with 3 in retractable seat belts, with adjustments for fore-aft position, seat height, seat back angle, thigh support, and lumbar support.

Y___ N___ An enclosed cab with ROPS (Rollover Protective Structure) according to ISO 3471:1986-1997 shall be provided.

Y___ N___ Cab doors shall have a hold-open clasp with a ground-level release in addition to a release in the cab.

Y___ N___ Cab shall be isolation-mounted to the front frame section of the machine.

Y___ N___ Cab shall have fixed front window of laminated glass with intermittent wiper.

Y___ N___ FOPS (Falling Object Protective Structure) shall be provided according to ISO 3449.

Y___ N___ Machine shall have no less than 17 adjustable vents, positioned to direct air to front windows and operator.

Y___ N___ Radio ready arrangement will include 24V to 12V converter, two speakers, antenna and wiring.

Y___ N___ An instrument cluster shall be provided that includes a speedometer, tachometer, coolant temperature, fuel, and articulation angle gauge.

Y___ N___ Operator cab fresh air-filter shall be accessible for clean out and replacement, from outside of the cab at ground level.

Y___ N___ Machine shall have a Factory Grade Control system fully integrated into the machine design with integral hydraulic and electrical components.

Y___ N___ A real-time information system shall monitor all system data and alert the operator of any faults through a digital text display. This performance and diagnostic information system shall be programmable.

Y___ N___ Left and right side cab doors shall be provided.

Y___ N___ Wipers shall be provided on side and rear windows.

Y___ N___ Digital machine hour meter shall be provided.

Y___ N___ An electronic message system shall provide real-time machine performance and diagnostic data.

Y___ N___ The forward visibility shall be continuous and unobstructed glass from roofline to floor providing visibility of the blade, heel and toe, back of the cutting edge, and front tires.

Y___ N___ Access to cab shall be three anti-skid steps.

Y___ N___ Cab shall have cup holder, personal cooler holder/storage compartment for operator's manual, with a molded floor mat.

Y___ N___ Window washer fluid bottle refill spout shall be located external of the cab.

Y___ N___ DEF gauge must be visible to the operator at all times.

CIRCLE & MOLDBOARD*

Y___ N___ Drawbar, circle, and moldboard shall be controlled with a maximum of two multifunction, 3-axis joysticks, as standard.

Y___ N___ Drawbar wear strips shall be replaceable drop-in inserts made from nylon composite material, replaceable and adjustable from the top of the drawbar plate via removable cover plates.

Y___ N___ The drawbar shall feature welded protective wear plates to prevent lift group contact with the primary drawbar structure.

Y___ N___ The standard moldboard shall be at least 14 ft (3657 mm) long, 24 in high and no less than 7/8 in thick.

Y___ N___ Moldboard shall have a bank slope angle capability of at least 90 degrees to both sides.

Y___ N___ Moldboard shall have no less than 16.3 in (413 mm) arc radius (blade curvature) for optimum productivity.

Y___ N___ The moldboard retention system shall have no more than two retention points located on the left and right side of the moldboard.

Y___ N___ Moldboard shall have a hydraulic tip control through a range of 40 degrees fore and 5 degrees aft.

Y___ N___ Moldboard wear strips shall be adjusted with lock screws, providing shim-less adjustment capability both vertical & horizontal.

Y___ N___ The moldboard shall be pre-stressed during manufacturing for superior strength and durability.

Y___ N___ Moldboard slide rails shall be constructed of a heat-treated, high carbon steel and have replaceable bronze alloy wear inserts on top and bottom.

Y___ N___ Circle shall be a single piece, rolled-ring forging with raised wear surfaces on the top and bottom.

Y___ N___ Circle shall be rotated by a hydraulically driven motor (pinion gear) with a minimum circle pinion torque capability of 44253 ft-lb.

Y___ N___ Circle teeth contact surfaces shall be induction-hardened on the front 240 degrees of the circle.

Y___ N___ Blade lift and center shift cylinders shall have replaceable bronze-alloy wear insert's in the ball sockets with removable shims to insure the ability to remove free play through out the useful wear insert life.

Y___ N___ The lift cylinder casting shall be welded to the front frame for added strength and structural integrity.

Y___ N___ The standard mounting hardware for cutting edges and end bits shall be 3/4 in.

Y___ N___ The draft frame pivot connection shall have a single ball stud with grease zerk. Ball stud shall be bolt-on, shimable and adjustable to allow for quick and easy field serviceable design.

Y___ N___ There shall be 3 sideshift anchor positions shall be provided for extended reach capability as standard.

Y___ N___ Pinion Gear shall be separate from the Pinion Shaft to allow for a quick and easy serviceable design.

Y___ N___ Circle outside diameter shall be no less than 60.2 in.

Y___ N___ There will be no more than 6 replaceable wear inserts between the circle and drawbar providing at least 163 in² of wear surface area.

ELECTRICAL*

Y___ N___ Machine shall have a 145 amp-hour, 1125 CCA heavy-duty battery.

Y___ N___ Machine shall have a minimum 150-amp alternator at 24 volts provided which is brushless for increased life and durability.

Y___ N___ Six 3 x 3 in halogen mounted cab lights shall be provided.

Y___ N___ A 24 V to 12 V converter with 10-amp capacity shall be provided.

Y___ N___ Starting system shall be a 24V direct electric type.

Y___ N___ LED white reversing lamps and LED stop lamps shall be provided.

Y___ N___ Electrical system shall have a master disconnect switch with a removable key (in addition to the ignition switch), accessible from the ground level.

Y___ N___ All core machine systems shall be electronically connected, optimizing performance and preventing machine damage.

Y___ N___ All wiring shall be arranged and located so as to facilitate regular visual inspections, not be in contact with hot surfaces and not routed with other services lines (e.g. fuel, oil, etc.).

Y___ N___ All harnesses / cabling are secured with clipping clamps providing a gap between the conduit/harness and the mounting surface preventing material build-up.

Y___ N___ Power must remain available upon key off to purge DEF system lines and protect components.

SERVICEABILITY*

- Y___ N___ Machine shall have a lockable swing-out cooling fan housing featuring a latch-style mechanism (shall not be of a bolted design), allowing easy access to cores. Ability to open/close shall be ground level accessible, eliminating need to climb on machine.
- Y___ N___ The dip stick for checking transmission fluid shall be at ground level.
- Y___ N___ Hydraulic tank site gauge shall be readable from the ground.
- Y___ N___ Hydraulic tank filter shall be a cartridge style filter providing a separate filter element, housing, and drain valve for quick and clean servicing.
- Y___ N___ Ability for ground level fueling shall be provided.
- Y___ N___ Sampling ports shall be accessible from the tandem level and provide access to the engine, hydraulic, coolant, and fuel ports.
- Y___ N___ A two-way communication tool shall give service technicians easy access to stored diagnostic data and allow configuration of machine parameters.
- Y___ N___ Machine shall provide 3 points of contact on all areas of the machine, for mounting and dismounting.
- Y___ N___ The articulation joint shall have mechanical locking device to prevent frame articulation while servicing or transporting machine.
- Y___ N___ Left and right side tandem case assemblies shall be covered with punched steel plate to provide an adequate platform for standing and walking.
- Y___ N___ Engine shall have primary fuel filter with fuel water separator and electronic sensor, quick release dual stage filter and primer pump.
- Y___ N___ The centralized lube bank shall be at the articulation joint to give access to difficult zerks.
- Y___ N___ Transmission filter restriction indicator shall be displayed in the cab.
- Y___ N___ Lockout Tagout capabilities shall be provided standard. Lockout Tagout renders the machine inoperative making it safe to work on.
- Y___ N___ DEF tank fill shall be located on the same side of the fuel tank fill, and be easily accessible from ground level.

MINIMUM SERVICE FILL CAPACITIES*

- Y___ N___ Standard fuel tank capacity shall not be less than 104 gallons.
- Y___ N___ Standard cooling system capacity shall not be less than 15.0 gallons.
- Y___ N___ Standard hydraulic tank capacity shall not be less than 16.9 gallons.
- Y___ N___ Standard engine oil capacity shall not be less than 7.9 gallons.
- Y___ N___ Standard tandem housing capacity shall not be less than 20.0 gallons each.
- Y___ N___ Standard front wheel spindle bearing housing capacity shall not be less than 0.13 gallons.
- Y___ N___ Standard circle drive housing capacity shall not be less than 1.8 gallons.
- Y___ N___ Standard DEF tank capacity shall not be less than 5.8 gallons.

SAFETY AND ENVIRONMENTAL*

Y___ N___ A circle drive slip clutch shall be provided to reduce horizontal moldboard impact damage.

Y___ N___ Black glare-reducing paint shall be used on the front frame and engine enclosure to decrease glare from other equipment lights and reflection from the sun and snow.

Y___ N___ Operator not present monitoring system will lockout implements, shall not allow gear shift out of neutral, and lock parking brake if system detects operator not present for increased safety.

Y___ N___ Hydraulic implement lockout shall be achieved by actuating a single electrical switch within the operator station.

Y___ N___ An external emergency kill switch shall be available for ground level engine shut down.

Y___ N___ A secondary, electric steering pump with redundant wiring shall be provided as a backup to the primary implement hydraulic pump.

Y___ N___ Machine shall have laminated glass for the front windows and doors, to protect the operator from shattered glass.

Y___ N___ Machine shall provide dual exits allowing for emergency egress should one side become obstructed.

Y___ N___ Electrical system shall have a master disconnect switch with a removable key and lock for added safety.

Y___ N___ Machine shall have a steering software system shall automatically reduce steering sensitivity as the ground speed increases.

Y___ N___ Machine shall have back-up lights and sounding alarm when reverse gears are selected.

Y___ N___ Environmentally friendly drain valves shall be provided for the hydraulic oil, engine oil, engine coolant, transmission, differential and fuel tank.

Y___ N___ Cooling fan shall have both a shroud and rear grill for protection during service.

Y___ N___ Machine shall allow cab interior and exterior lights to remain on separate from ignition switch, for safe exit of the machine during night operation.

Y___ N___ Engine and transmission shall be rubber isolation mounted to reduce noise and vibration.

A Certified Dealer Instructor shall be provided to cover the following at delivery

Y___ N___ Introduction of machinery and personal safety

Y___ N___ Machine work area and personal safety

Y___ N___ Daily and weekly maintenance checks and procedures

Y___ N___ Operators compartment and operator manual

Y___ N___ Pre and post operating procedures

Y___ N___ Operating techniques and procedures

Y___ N___ Proper inspection of daily check points, equipment safety

Y___ N___ Start up and shut down procedures and maintenance items related to Tier 4 compliant emission standards

Y___ N___ Review and explain all functions and controls in the operator station to better understand how to achieve maximum machine performance and safety

SUPPLIER BID FORM

Name of bidder: _____

Address of bidder _____

Make of unit: _____

Model of unit: _____

Lease price of New unit \$ _____

36 month lease payment..... \$ _____

Balloon payment.....\$ _____

48 month lease payment.....\$ _____

Balloon payment.....\$ _____

60 month lease payment.....\$ _____

Balloon payment.....\$ _____

Guaranteed buy back @ 36 months or 3000 hours.....\$ _____

Guaranteed buy back @ 48 months or 4000 hours.....\$ _____

Guaranteed buy back @ 60 months or 5000 hours.....\$ _____

Interest rate (APR) 36 Month @ _____ %, 48 Month @ _____ %, 60 Month @ _____ %

Warranty (Enclose copy)..... _____

Labor rate for non warranty work..... per-hour (Shop) _____ (Field) _____

Travel mileage rate..... (per-mile)..... \$ _____

Distance from nearest facility..... _____

Delivery date _____

A Certified Dealer Instructor furnished on site at delivery YES _____ NO _____

Instructor documentation in bid package YES _____ NO _____

Exceptions and Justification to Specifications

Representative _____ Date _____, 2016